

AZ2705

30 AMP POWER RELAY

FEATURES

- 30 Amp switching
- 30 Amp AC7a approved
- 900 Amp Short circuit current (carrying)
- PC mount and quick connect terminals
- Dielectric strength 4000Vrms
- Standard (2.4mm) and wide contact gap (3.0mm) available
- UL, CUR file E44211
- TÜV certificate R50164753



CONTACTS

Arrangement	SPST (1 Form X) DPST (2 Form X)
Ratings	Resistive load: Max. switched power: 840W (2X) or 8310VA (1X) Max. switched current: 30A Max. switched voltage: 150VDC* or 277VAC *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	30A at 277VAC, resistive 30k cycles [1][2] 25A at 277VAC, resistive, 100k cycles [2] 25A at 240VAC, resistive, 100k cycles [1] 3HP at 240VAC, 6k cycles [1] 1.5HP at 120VAC, 6k cycles [1] TV-10 at 120VAC, 6k cycles [1] 105 LRA / 20.5 FLA at 240VAC, 100k cycles [1] SPST (1 Form X) 10A at 120VAC, tungsten, 6k cycles [1][2] 3HP at 240VAC, 100k cycles [2] 1.5HP at 120VAC, 100k cycles [2] DPST (2 Form X) 10A at 277VAC, tungsten, 6k cycles [2] 10A at 120VAC, tungsten, 6k cycles [1] 2HP at 277VAC, 75k cycles [2] 1HP at 125VAC, 30k cycles [2]
TÜV	27A at 240VAC, cos phi 0.8, 50k cycles [1][2] 25A at 240VAC, cos phi 0.4, 50k cycles [1][2]
Material	[1] Silver cadmium oxide, [2] silver tin oxide
Resistance	< 100 milliohms initially (24V, 1A voltage drop method)

COIL

Power At Pickup Voltage (typical)	1.08W (DC) 1.7VA (AC)
Max. Continuous Dissipation	3.8 W at 20°C (68°F) ambient
Temperature Rise	50°C (90°F) at nominal coil voltage
Temperature	Max. 130°C (266°F) - Class B Max. 155°C (311°F) - Class F

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁶ 1 x 10 ⁵ at rated load
Operate Time (max)	30ms at nominal coil voltage
Release Time (max)	30ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	4000Vrms coil to contact 2000Vrms between open contacts
Insulation Resistance	1000 megohms min. at 20°C, 500VDC, 50% RH
Dropout	Greater than 5% of nominal coil voltage (DC) Greater than 15% of nominal coil voltage (AC)
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) - Class B -40°C (-40°F) to 105°C (221°F) - Class F -40°C (-40°F) to 130°C (266°F) - Class B -40°C (-40°F) to 155°C (311°F) - Class F
Vibration	0.062" DA at 10–55 Hz
Shock Operating Non-Operating	10g, 11ms, 1/2 sine (no false operation) 100g, 11ms, 1/2 sine (no damage)
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, Quick connect tabs Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
Weight (Approx.)	120 grams

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.

AMERICAN ZETTLER, INC.

www.azettler.com

75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM

2/08/16

AZ2705

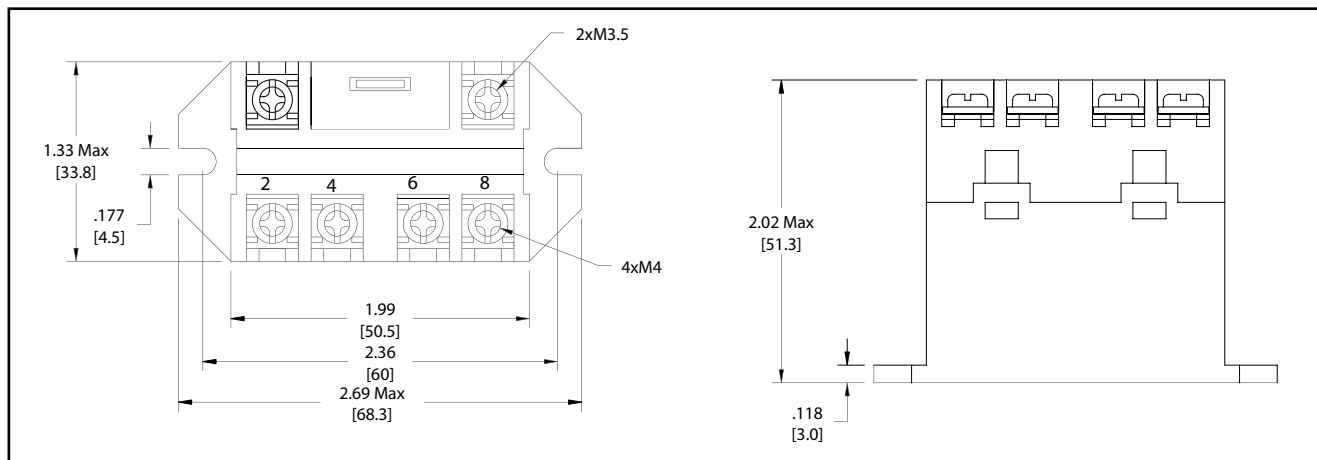
RELAY ORDERING DATA

COIL SPECIFICATIONS – DC COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	1 Form X	2 Form X
3	2.3	4.2	4.7	AZ2705-1A-3D	AZ2705-2A-3D
6	4.5	8.4	18.8	AZ2705-1A-6D	AZ2705-2A-6D
12	9.0	16.8	75	AZ2705-1A-12D	AZ2705-2A-12D
24	18.0	33.7	300	AZ2705-1A-24D	AZ2705-2A-24D
48	36.0	67.5	1200	AZ2705-1A-48D	AZ2705-2A-48D
100	75.0	140.5	5200	AZ2705-1A-100D	AZ2705-2A-100D
110	82.5	154.7	6300	AZ2705-1A-110D	AZ2705-2A-110D
200	150.0	282.4	21000	AZ2705-1A-200D	AZ2705-2A-200D

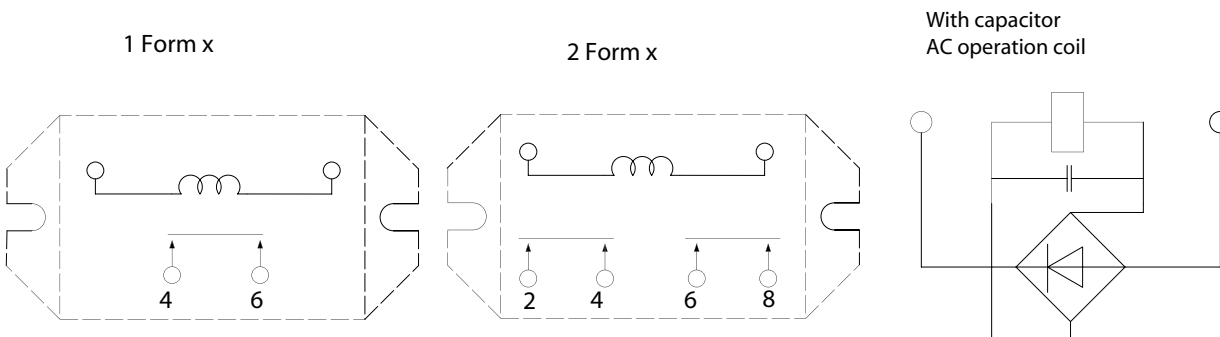
COIL SPECIFICATIONS – AC COIL				ORDER NUMBER*	
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Coil Current mA $\pm 10\%$	1 Form X	2 Form X
6	4.8	6.6	319	AZ2705-1A-6A	AZ2705-2A-6A
12	9.6	13.2	160	AZ2705-1A-12A	AZ2705-2A-12A
24	19.2	26.4	80	AZ2705-1A-24A	AZ2705-2A-24A
48	38.4	52.8	40	AZ2705-1A-48A	AZ2705-2A-48A
120	96.0	132.0	23	AZ2705-1A-120A	AZ2705-2A-120A
220	176.0	242.0	10	AZ2705-1A-220A	AZ2705-2A-220A
240	192.0	264.0	9	AZ2705-1A-240A	AZ2705-2A-240A

*For silver tin oxide add suffix "T.". For wide contact gap add "W". For Class F add suffix "F".

MECHANICAL DATA



Wiring Diagrams



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

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